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## IN THE CLAIMS:

Please cancel claims 1-22.

Claims 1-22 (Canceled)

23. A method for extending the data retention of a ferroelectric field effect transistor (FET) exhibiting hysteresis, having source, drain, gate and substrate terminals, the method comprising:

determining the state of polarization of the ferroelectric FET before the FET is powered down;

injecting charge into the FET to produce a first threshold voltage if a first polarization state is determined;

removing charge from the FET to produce a second threshold voltage if second polarization state is determined;

determining the state of charge injection when the FET is powered up; polarizing the FET to first polarization state if a first threshold voltage is determined; and

polarizing the FET to second polarization state if a second threshold voltage is determined.

- 24. The method of claim 23 wherein injecting charge comprises utilizing mechanisms selected from a group consisting of tunneling, Fowler-Nordheim tunneling, hot carrier injection, avalanche breakdown, and impact ionization.
- 25. The method of claim 23 wherein injecting charge comprises injecting charge into the dielectric layer in the drain region.

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- 26. The method of claim 23 further comprising operating the FET so that the injected charge is determined by passing current through the FET with source and drain reversed, and wherein a high current represents a first data state and a lower current represents a second data state.
- 27. The method of claim 23 further comprising eliminating the threshold offset produced by the injected charge.